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APPLICATION NO.	FILING	DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/564,416	01/12/2006		Masanobu Ando	F05-420-US	7394
21254	7590	07/03/2006		EXAMINER	
MCGINN IN		CRANE, SARA W			
8321 OLD CO SUITE 200	OUKTHOUS	ART UNIT	PAPER NUMBER		
VIENNA, VA	A 22182-38	17	2811		

DATE MAILED: 07/03/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/564,416	ANDO ET AL.					
Office Action Summary	Examiner	Art Unit					
	Sara W. Crane	2811					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE MAILING DOWN THE STATE OF THE MONTHS FROM THE MAILING DOWN THE STATE OF THE MONTHS FROM THE MAILING THE MONTHS FROM THE MAILING THE MONTHS FROM THE MONTHS FROM THE MONTHS THE MON	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	ON. timely filed m the mailing date of this communication. IED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on	<u>_</u> .						
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.					
Disposition of Claims							
 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o 	wn from consideration.						
Application Papers							
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Sign is required if the drawing(s) is c	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).					
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)	_						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 410 0 € 1 1 2 0 €	4) Interview Summa Paper No(s)/Mail 5) Notice of Informal 6) Other:						

Application/Control Number: 10/564,416

Art Unit: 2811

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, line 5, the composition ratio of In is not clear. Is this a ratio of number of atoms? For example, if the material were to be InGaAs, would the ratio of concern here be the number of atoms of In to the number of atoms of Ga + As? Or would it be the number of atoms of In to the number of atoms of Ga? Other claims with the term "composition ratio" are similarly unclear. With respect to claim 5, what is the gradient da/dz? The gradient of what? (What is the antecedent?) Other claims with this gradient are similarly unclear. With respect to claim 6, the reference to a method in claim 1 is not clear. Claim 1 does not appear to recite a method. With respect to claim 6, what is the oscillation wavelength? What is it that is oscillating? Other claims with this term are similarly unclear.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Crane, whose telephone number is (571) 272-1652.

The supervisor for Art Unit 2811, Eddie Lee can be reached on (571) 272-1732. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Art Unit: 2811

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sara W. Crane
Primary Examiner
Art Unit 2811